

ENERGY STAR with Indoor Air Package Verification Checklist



This checklist applies to specifications developed by the U.S. Environmental Protection Agency (EPA) to recognize homes equipped with a comprehensive set of indoor air quality measures. Homes verified to comply with these specifications can use "Indoor Air Package" as a complementary label to ENERGY STAR for homes. ***Verification is not complete until this checklist is completed in full and signed.***

Disclaimer: The construction practices and technical specifications that comprise the ENERGY STAR Indoor Air Package are designed to contribute to improved indoor air quality in new homes compared to standard code-built homes. However, these measures alone will not guarantee that homebuyers will not experience air quality problems in their homes. Rather, the Indoor Air Package should be viewed as a way to reduce the likelihood of experiencing such problems.

Home Information	Homebuyer Name (if sold):			
	Home Address or Subdivision & Lot #:			
	City:		State:	
	Zip:			
	Inspection Date:			

I certify that this home meets all qualification requirements for the U.S. EPA's voluntary ENERGY STAR with Indoor Air Package program Label, to the best of my knowledge, including all work performed by sub-contractors.

Builder Signature	Signature:			
	Builder:			
	Address:			
	City:		State:	
	Phone:		Zip:	

I attest that this home meets all verifiable qualification requirements for the U.S. EPA's voluntary ENERGY STAR with Indoor Air Package program Label, to the best of my knowledge, based on visual inspection and testing, as appropriate.

Certified Rater Signature	Signature:			
	Verifier Name:			Rating Provider:
	Company:			
	Address:			
	City:		State:	
	Phone:		Zip:	

ENERGY STAR with Indoor Air Package Verification Checklist

1. Moisture Control Required Measures				
	Requirement (see Spec for details & exceptions)	Builder Initials	Rater Initials	Verification Method
Water Managed Roofs				
1.1	No. 30 roof felt underlayment minimum			
1.2	Ice flashing over sheathing at eaves			
1.3	Metal drip edge at all exposed roof decking			
1.4	Bituminous membrane at all eaves, valleys, & penetrations			
1.5	Insulation wind baffles at attic eave bays			Inspect
1.6	Step flashing at all roof/wall intersections & terminated with "kickout" flashing			Inspect
1.7	Installed system for diverting roof water from house (e.g. gutters)			Inspect
Water Managed Walls				
1.8	Drainage system (e.g. flashing or equivalent) at bottom of all wall cladding			Inspect
1.9	Continuous drainage plane behind exterior wall cladding fully sealed at all penetrations			Inspect
1.10	Fully flash all window and door openings			Inspect
1.11	All deck ledger boards attached to homes without disrupting drainage plane			Inspect
Ceiling/Attic Interface				
1.12	IC Airtight rated recessed lights in insulated ceilings			Inspect
1.13	Complete air barrier between attic and conditioned space & all penetrations sealed			Inspect
Water Managed Foundations				
1.14	Slope garage floor toward main vehicle entryway			"bucket test"
1.15	Seal all plumbing, electrical, and other penetrations of walls and floors, and seal joints			Inspect
1.16	Sump pump covers air sealed			Inspect
1.17	Surface water management system (final grade tamped & sloped away from foundation)			"bucket test"
1.18	Capillary break at all concrete slabs			
1.19	Exterior surface of below grade walls damp-proofed or water-proofed			
1.20	Drain tile system at all footings			
1.21	Crawl spaces unvented, insulated, & conditioned			Inspect
1.22	Insulate exterior walls per IECC; do not install impermeable vapor barrier on interior side of wall			Inspect

Initials attest to verification of specification requirements, "N/A" indicates exception. Refer to Specification document for full description of requirements and exceptions.

Verification Checklist

2. Radon Control Required Measures				
	Requirement (see Spec for details & exceptions)	Builder Initials	Rater Initials	Verification Method
Radon Resistent Construction				
2.1	Determine U.S. EPA radon zone			Check EPA web site
2.2	Zone 1: radon resistent features required			Verify installation (visible features)
2.3	Zone 2: radon resistent features highly recommended			Optional

3. Pest Management Required Measures				
	Requirement (see Spec for details & exceptions)	Builder Initials	Rater Initials	Verification Method
Pest Management				
3.1	Termite management measures ("Moderate to Heavy" & "Very Heavy" areas)			
3.2	Rodent & corrosion proof screens			Inspect
3.3	Additional termite management measures for "Very Heavy" areas			Inspect

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4. HVAC Systems Required Measures				
	Requirement (see Spec for details & exceptions)	Builder Initials	Rater Initials	Verification Method
Ductwork				
4.1	Duct system sized to Manual D			Review design docs & Inspect
4.2	Duct system sealed with approved sealant or system			Inspect
4.3	No ductwork in garage			Inspect
4.4	Duct leakage test (max. 3 cfm/100 sf)			Test
4.5	No building cavities used in distribution system			Inspect
4.6	Transfer ducts/grilles in rooms w/o return			Inspect
4.7	Duct boots covered during construction			
Heating & Cooling Equipment				
4.8	Design loads calculated to Manual J & system sized to Manual S			Review design docs & Inspect
4.9	Propoer drain pan design and installation			Inspect
4.10	Air handler cabinet & adjacent plenum sealed, door gasketed			Inspect
4.11	Cooling equipment max SHR of 0.7 (hot humid climates)			Review design docs & Inspect
4.12	No air handler in garage			Inspect
4.13	Outdoor & indoor coils matched per manufacturer requirements			Review design docs & Inspect
4.14	Only operate HVAC system during construction if specified filter installed			
4.15	No equipment that intentionally produces ozone			Inspect
Ventilation				
4.16	Mechanical whole house ventilation per ASHRAE Std 62.2-2004			Review design docs & Inspect
4.17	Mechanical spot ventilation per ASHRAE Std 62.2-2004 & ENERGY STAR labeled vent fans			Inspect & Verify E* qualified fans
4.18	Clothes dryers vented outdoors			Inspect
4.19	Outdoor air intakes at least 10 ft. from exhaust vents & vehicles			Inspect
Air Filtration				
4.20	HVAC filters at least MERV 8			Review design docs & Inspect
4.21	No filter by-passes			Inspect
4.22	Central vac vented to outdoors			Inspect

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5. Combustion Systems Required Measures				
	Requirement (see Spec for details & exceptions)	Builder Initials	Rater Initials	Verification Method
Combustion Appliances				
5.1	Fuel fired furnaces, boilers, & hot water heaters in conditioned space power vented or direct vented			Inspect
5.2	Fireplaces vented to outdoors and supplied with adequate combustion & ventilation air			Review appliance specs & Inspect
Garage Isolation				
5.3	Common walls and ceiling completely sealed			Inspect
5.4	Connecting doors gasketed and fitted with automatic closer			Inspect
5.5	100 cfm ENERGY STAR qualified vent fan installed in attached garages			Inspect & Verify E* qualified fan
Carbon Monoxide Alarms				
5.6	Certified CO alarms (hard-wired) outside each sleeping area			Inspect

6. Building Materials Required Measures				
	Requirement (see Spec for details & exceptions)	Builder Initials	Rater Initials	Verification Method
Preparation				
6.1	Keep dry all building materials stored on-site			
6.2	No construction debris enclosed in wall assemblies			
Installation				
6.3	Raise paper covered gypsum board 1/2" above concrete slab			Inspect
6.4	Prime painted wood trim on all six sides			
6.5	Ventilate home during & after installation of products known to contain contaminants			
Materials				
6.6	Plywood & OSB made with exterior type adhesives			
6.7	Particleboard and MDF compliant with ANSI A208			
6.8	Hardwood plywood compliant with ANSI & HUD stds			
6.9	Carpets qualified for CRI Green Label Plus			
6.10	No wall-to-wall carpet in bathrooms, kitchens, entryways, or utility rooms			Inspect
6.11	>1 Perm finish on inside of exterior walls			

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7. Home Commissioning Required Measures				
	Requirement (see Spec for details & exceptions)	Builder Initials	Rater Initials	Verification Method
Final Preparation				
7.1	Air handler clean, free of debris, & filter meets requirements			Inspect
7.2	Ductwork clean, dry, & free of debris			Inspect
7.3	Ensure each supply boot & return grille have detectable airflow and verify no disconnects			Inspect
7.4	Proper refrigerant charge			Review test docs
7.5	Ventilate house between completion & occupancy (purge)			
7.6	Provide owner with 2 radon test kits (zones 1 & 2)			
Owner's Checklist/Manual				
7.7	Provide owner with completed checklist & signature page			
7.8	Provide homeowner's manual			

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